

Peer Review

Review of: "Cardiac Adipose Tissue, Imaging Segmentation, and Quantification for Cardio-Vascular Disease Assessment – A survey"

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Cardiac Adipose Tissue, Imaging Segmentation, and Quantification for Cardio-Vascular Disease Assessment – A survey

Buritica et al.

This is a great, wide-ranging review of an important topic. I cannot think of anything left out of the adipose pathophysiology review. It will be an important read for a cardiologist or researcher in the field to gain a full understanding of the subject.

There is an interesting paper below that highlights that EAT is perfused synchronously with the myocardium, while paracardial fat is not. It is an interesting way to show that paracardial fat is likely isolated from another blood supply. It also highlights potential confounds with CTA analysis of PCAT.

Wu, Hao, Yingnan Song, Ammar Hoori, Juhwan Lee, Sadeer G. Al-Kindi, Wei-Ming Huang, Chun-Ho Yun, Chung-Lieh Hung, Sanjay Rajagopalan, and David L. Wilson. "Cardiac CT Perfusion Imaging of Pericoronary Adipose Tissue (PCAT) Highlighting Potential Confounds in CTA Analysis." *Journal of Clinical Medicine* 14, no. 3 (2025): 769.

Maybe more papers could be referenced, but most ideas were reasonably covered.

The references need work. Some strange text shows up. Some references do not even have authors listed. Some obscure sources are listed. I think that the authors should carefully review all references. Maybe some references could be replaced with more substantial papers. Some issues are copied below to show

you what I mean. And what are all of the letters about? Maybe they refer to a table, but it is not clear. If so, make a note near the references.

References: 2 (no author), 13 (^ symbol), 70 (| symbol). (Maybe they are not as bad as I thought if the extra symbols are explainable. I found it disconcerting to see these symbols. Really not sure what they add.)

Altogether, this review is a good read. And it is sufficiently concise so that one does not get bogged down in unnecessary text.

Declarations

Potential competing interests: No potential competing interests to declare.